To Check Add Decoder Circuit

1. 1C 26/H LS 138

Output Pin 10 6800 ChipEnable For 3 1/2

2. 3 B/C LS 138

Out put PiN 15 6800 15 14 6810 15 13 6820 15 12 6830 10

3. 1C 16/H LS 259

Output PIN 4 6820 IRQ 1 IRQ 2 <u>5</u> 6821 01 NOION 01 6822 6 . . . 7 RESET 01 4823 9 6824 01 6825 mode o 10 01 MODE 1 6826 11 01 MODE 2 12 6827 01

HIGH SCORE CIRCUIT

TO CHECK 10 E/F 74L5374

B800 AA PINS 19, 15, 9, 5 LOW

PINS 16, 12, 6, 2 HIGH

55 PINS 16, 12, 6, 2 LOW

19, 15, 9, 5 HIGH

NOTE:

100 must latch in value O.A.

10 I.C. 9E to get Pin I LOW on

I.C. 10 E/F

B800 R Pull input pins low with jumper

HIGH SCORE CIRCUIT

| 70 | CHECK | 10 H)I | 7415174 |
|----------------|---------|---------------------------|------------------------------|
| 008 <i>B</i> | | te to Enal ts should n | ale Clock (Pm9) ow be low |
| B815 | - | 2,7,12 5,10,15 | HIGH |
| B82A | - | 5, 10, 15 | Low |
| OT | CHECK | GE 74 | LS175 |
| B840 | R ENA | BLE CLO | ck (bind) |
| B840 | , | 3,7,11,15 | |
| | OA PINS | 3,7,11,15 5 2,6,10,14 | |

MOTION OBJECT TEST

CLEAR SCREEN: 8000 - 9FFF FF IK DATA 8800 - 8BFF OO IK DATA

ADDR DATA MODE BYTE

BB80 90 W | OBJECT CODE

LARY DATA FOR OTHER OBJECTS

COLOR CODE

UARY DATA VERT. POST.

FROM

4. 9381 77 W | OD - FF HORZ POST.

S. 9880 01 W | OBJECT Should HORZ FLIP

6. 91380 02 W | MODE SMOOTHLY UERT FLIP

IF YOU HAVE PROBLEMS USETICALLY CHECK:

(ADDERS 4P, 3 C/D AND

ASSOCIATED CIRCUITRY

IF YOU HAVE PROBLEMS HORIZONTALLY CHECK:

1. HORZ MOTION CIRCUIT - SheET BA

AND ASSOCIATED CIRCUITRY

A003 00 W IBYTE ENABLES BACKROUND A003 01 W IBYTE DISABLES BACKROUND

MOTION OBJECT TEST

CLEAR SCREEN: 8000 - 9FFF FF IK DATA 8800 - 8BFF OO IK DATA

ADDR DATA MODE BYTE

BB80 90 W | OBJECT CODE

LARY DATA FOR OTHER OBJECTS

COLOR CODE

LARY DATA VERT. POST.

FROM

H. 9381 77 W | OO - FF HORZ POST.

S. 9B80 01 W | OBJECT Should HORZ FLIP

L. 9B80 02 W | MONE SMOOTHLY UERT FLIP

IF YOU HAVE PROBLEMS USETICALLY CHECK:

(ADDERS 4P, 3 C/D AND

ASSOCIATED CIRCUITRY

IF YOU HAVE PROBLEMS HORIZONTALLY CHECK:

1. HORZ MOTION CIRCUIT - ShEET BA

AND ASSOCIATED CIRCUITRY

A003 00 W BYTE FNABLES BACKROUND
A003 01 W BYTE DISABLES BACKROUND

PLAYFIELD TEST

CLEAR SCREEN: 8000-9FFF FF 1K W
8800-8BFF 00 1K W
ADDR DATA MODE BYTE
ACO3 01 W 1 DISABLES BACKROUND
ACO3 00 W 1 ENABLES BACKROUND
8000 1A W 1K "A"
8000 1B W 1K "B"
8000 FF W 1K BLANK

BACKEOUND TEST

| A003 | 00 | 3 | BYTE | | |
|--------------|----------|---------------------|------|---------|-----------|
| A000 A001 | 00 | u u | 13 | GAME | BACKROUND |
| A000 A001 | 01 00 | 1313 | / } | CR022 | HATCH |
| A000 A001 | 00 | ε <mark>!</mark> ε! | ; } | TOWNEL | PATTERN |
| A000 A001 | 01 01 | u | /} | STTRACT | BackRound |

Color TEST

| A002 | 01 | $\overline{\omega}$ | 1 BYTE | | |
|--------------|--------------|---------------------|----------|------|------|
| 8000 8000 | - 9F - 81 | | FF 00 | Ww | DATA |
| P000 | 00 | 2 | IK | | |
| 8400 | 01 | ū | 14 | YELL | oω |
| 8400 | 02 | Σ | 1k | WHA | |
| P400 | 04 | ω | IK | GRE | |
| 2400 | 80 | 3 | 1k | BLU | E |
| 8400 | OA | $\bar{\omega}$ | lk | REI | |

WILL GIVE YOU A SOLIO SCREEN OF THE COLOR THAT YOU PICK

Audio TEST

DIG-DIJG BACKGROUD SCREEN

| Copes | | | |
|-----------------------------|--|--|---|
| 10=0 | 34 = SEMICOLON | Codes Repeat Sec | XACCS AT |
| 19 = 9 | 35- PERIOD | Following Hex VA | |
| IA - A | _ | | |
| - F=F | 36= COMMA | \$1Ø = \$5\$ = \$9\$ | $= \mathcal{F} \mathcal{D} \varphi$ |
| 20 = 6 | 37 = BLANK | · | |
| 33 2 | 38 = COPYRIGHT @ | | |
| 36 | COLOR | SHADING ADDRESSES | |
| | a | 2 6 | -WHQE |
| 28 2 | | 22 | SCREEN |
| (CADE) | (Cotor) IR | (Clar AREA) | |
| \$840 | s \$8500 | #860e | ≠8700 |
| 36 WIDE. THAT THUS COLOR SH | CHARACTERS ARE DISPLA NOMBERS IN DIAGRAM DAM AREA SET UP OWOR ADES OF THE SAND AT THE H'S INTO DAM BEGINNING THE CHARACTERS WAS | REFER TO # OF CHAN REGIONS (SMILAR TO DIFFERENT ROUNDS) BY GAT THE MOOVE ADDR | CASES - IT APPEAR THE DIFFSRENT URITING THE |
| \$ \$ \$ = 8 CACE | # # BROWN | \$\$\$ = Yellow | \$\$9= DANK EREY |
| soi = yellow | g \$4= GREEN | \$ \$ 07 = DARK BROWN | \$\$A=RED |
| \$02 = WHIT | \$ \$ 5 - DARE BEDWA | \$ \$ \$ \$ BUE | \$ dB = GREY |
| | REY \$6D-GREY \$9 | | = BLANK |
| | ↑ | | |

| \$830b | |
|--------------------|--|
| ↑ \$82## | |
| \$51,06 | |
| ↑ \$8₽₽₽ | |

DIG-DUG

MOTION OBJECT CHARACTERS

| STMBOLS: DEMAN - DIEGING BIREC | the same of the sa | ITERATE CHARACTER ROBJECT ABOVE |
|--------------------------------|--|--|
| 00 = DOISSING T | 19 = MAN CALIGHT | |
| 01= D " " MO | IA MAN CAUGHT | 2 3 m |
| OZ= DOGGING - | 13= ==== | |
| 03 = " " MO | 1 C = SOLUISHED FOOKA | |
| 04 - MAN FAILING - | . 10=? | |
| 05 = " " Mo | | \$ 1.5 <u>1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 </u> |
| OG = MAN STANDING -> | 40 = (25 | gen over the second |
| 07= " " MO | 41 = 40 | 7 |
| OB = MAN PLMP A | 42= (60 | • • • • • • |
| 09 = " " Mo | 43 = (80 | |
| OA = ? BLANE | 44= (100 | - |
| DB = ? BLANE | 45= (IZO | - |
| OC = MAN PUMPING -> | 46= BLANK | |
| OD = " " " MO | 47= 00 | |
| OE = PGLANE | 483 N | |
| OF ? BLANK | = 49= Å of ATARI | |
| 10 = MAN STANDING 1 | FA = BLANK | |
| 11 = " -> | 4B=RI-FATARI | |
| 12 = SCORE WINDOW DBLANK | 4C= Iman Falling | |
| 13 & SCORE WINDOW [" | 4D= [] ' ' | |
| 14: MAN CALGHE (| 4E = (20) | |
| 15= " " | 4F= (30) | |
| 16= " [| 50 = (50) | |
| 17= 51/2 | 5/= (70) | |
| 18= MAIN CALIGHT (| | |

To Check Add and DATA LINES Statically

- 1. Ground IC GHPIN 15 for 1st PRIORITY
- 2. Ground 1c 5D PiN 15 for 2nd Presority
- 3. Ground IC 5F PIN 15 for 3rd Priority
- 4. Pull out 1C 7R (Custom)

CAT BOX SETUP FOR STATIC ADD AND DATA LINE TEST

- 1. AAAA AA W I BYTE STATIC

 Check out put of Buffers for High/Low
- 2.5555 55 W LByte STATIC
- Dote: 1. Low outputs will have some roise on them.
 - 2. IF RAMS Check good Add And DAtA lines Akt O.K.